

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|------------------------------------|------------------|---------|------------------|
| L1 | 29 | (pipe or tube of tubing or piping)and ((expansion adj (apparatus or device)) with ((variable or varying) near3 diameter)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 17:06 |
| L2 | 33 | (pipe or tube of tubing or piping)and ((expansion near3 (apparatus or device or plug or sizing)) with ((variable or varying) near3 diameter)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 17:11 |
| L3 | 1 | "6457532".pn. | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 18:04 |
| L5 | 1055 | (264/177.14,177.13,177.1,165).ccls. | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 18:12 |
| L6 | 1 | 5 and (pipe or tube of tubing or piping)and ((expansion near3 (apparatus or device or plug or sizing)) with ((variable or varying) near3 diameter)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 18:13 |
| S1 | 1 | WO "1997006940" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/05/27 13:14 |
| S2 | 1 | WO "1997010096" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/05/27 13:14 |
| S3 | 1 | WO "1996036475" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/05/27 13:14 |
| S4 | 3 | (WO-9706940-\$ or WO-9636475-\$ or WO-9710096-\$).did. | DERWENT | ADJ | ON | 2009/05/27 13:15 |
| S5 | 0 | S4 and extrud\$4 diameter AND temperature AND expan\$4 AND cool\$4 AND calibrator AND draw ratio | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:16 |
| S6 | 0 | S4 and diameter AND temperature AND expan\$4 AND cool\$4 AND calibrator AND draw ratio | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:16 |
| S7 | 0 | S4 and diameter AND temperature AND expan\$4 AND cool\$4 AND calibrat\$4 AND draw ratio | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:17 |
| S8 | 0 | S4 and draw ratio | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:17 |
| S9 | 0 | S4 and diameter AND temperature AND expan\$4 AND cool\$4 AND calibrat\$4 | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:17 |
| S10 | 0 | S4 and diameter AND temperature AND expan\$4 AND cool\$4 AND calibrat\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/05/27 13:17 |
| S11 | 0 | S4 and diameter AND temperature | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/05/27 13:17 |
| S12 | 1 | "6296804".PN. | DERWENT | ADJ | ON | 2009/05/27 13:18 |
| S13 | 1 | "6153132".PN. | DERWENT | ADJ | ON | 2009/05/27 13:18 |

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|-----|-----|---|--|-----|----|---------------------|
| S14 | 1 | "5891481".PN. | DERWENT | ADJ | ON | 2009/05/27 13:19 |
| S15 | 1 | "5891481".PN. | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:19 |
| S16 | 1 | "6296804".PN. | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:19 |
| S17 | 1 | "6153132".PN. | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:20 |
| S18 | 3 | (US-5891481-\$ or US-6296804-\$ or US-6153132-\$).did. | USPAT | ADJ | ON | 2009/05/27 13:20 |
| S19 | 0 | S18 and extrud\$4 diameter AND temperature AND expan\$4 AND cool\$4 AND calibrator AND draw ratio | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:20 |
| S20 | 0 | S18 and temperature AND expan\$4 AND cool \$4 AND calibrator AND draw ratio | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:20 |
| S21 | 0 | S18 and temperature AND expan\$4 AND cool \$4 AND calibrator | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:20 |
| S22 | 0 | S18 and draw ratio | US-PGPUB; USPAT | ADJ | ON | 2009/05/27 13:21 |
| S23 | 3 | "6153132".PN. OR "6296804".PN. OR "5891481".PN. | US-PGPUB; USPAT | ADJ | ON | 2009/06/12 15:29 |
| S24 | 0 | S23 and (extrusion or extrud\$3) and temperat \$3 and (diameter or diametric\$4) and calibrat \$4 | US-PGPUB; USPAT | ADJ | ON | 2009/06/12 15:32 |
| S25 | 3 | S23 and (extrusion or extrud\$3) | US-PGPUB; USPAT | ADJ | ON | 2009/06/12 15:32 |
| S26 | 2 | S25 and temperat\$3 | US-PGPUB; USPAT | ADJ | ON | 2009/06/12 15:32 |
| S27 | 2 | S26 and (diameter or diametric\$4) | US-PGPUB; USPAT | ADJ | ON | 2009/06/12 15:32 |
| S28 | 0 | S27 and calibrat\$4 | US-PGPUB; USPAT | ADJ | ON | 2009/06/12 15:32 |
| S29 | 0 | WO "1996036475" | US-PGPUB; USPAT | ADJ | ON | 2009/09/01 13:03 |
| S30 | 1 | WO "1996036475" | US-PGPUB; USPAT; EPO; DERWENT | ADJ | ON | 2009/09/01 13:03 |
| S31 | 3 | WO "9002644" | US-PGPUB; USPAT; EPO; DERWENT | ADJ | ON | 2009/09/01 13:04 |
| S32 | 1 | "20070132137" | US-PGPUB; USPAT | ADJ | ON | 2009/09/01 14:54 |
| S33 | 145 | (extru\$5 near5 (plastic (tube or pipe or tub \$4))) AND calibration | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 14:37 |
| S34 | 0 | EP "99969371" | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 14:56 |
| S35 | 0 | EP "99969371" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/09/02 14:56 |
| S36 | 0 | EP99969371 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/09/02 14:56 |
| S37 | 6 | "6153132".pn. or "6296804".pn. or "6050800".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/09/02 17:43 |

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| S38 | 3 | "6153132".pn. or "6296804".pn. or "6050800".pn. | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 17:43 |
| S39 | 1 | "5551733".pn. | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 17:53 |
| S40 | 1 | "6210617".pn. | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 17:55 |
| S41 | 987 | (264/177.14,177.13,177.1,165).CCLS. | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 18:03 |
| S42 | 1 | S41 and(extru\$5 near5 (plastic (tube or pipe or tub\$4))) AND calibration | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 18:04 |
| S43 | 0 | WO "9710096" | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 18:07 |
| S44 | 1 | WO "9710096" | US-PGPUB; USPAT; EPO | ADJ | ON | 2009/09/02 18:07 |
| S45 | 3 | "6153132" | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 18:08 |
| S46 | 0 | DE "19843340" | US-PGPUB; USPAT | ADJ | ON | 2009/09/02 18:09 |
| S47 | 1 | DE "19843340" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/09/02 18:09 |
| S48 | 0 | DE19843340 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/09/02 18:09 |
| S49 | 1 | DE "19843340" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/09/02 18:10 |
| S50 | 2 | "7335010" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/09/02 18:10 |
| S51 | 2011 | (extru\$5 near5 (plastic (tube or pipe or tub \$4))) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:46 |
| S52 | 5 | S51 and (constant near3 (ratio or percent\$4) near3 stretch\$4) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:48 |
| S53 | 5 | S51 and ((constant near3 ratio near3 stretch \$4) or (constant near3 percentage near3 stretch\$4)) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:49 |
| S54 | 4139 | (extru\$5 near5 (plastic near3 (tube or pipe or tub\$4))) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:50 |
| S55 | 5 | S54 and ((constant near3 ratio near3 stretch \$4) or (constant near3 percentage near3 stretch\$4)) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:50 |
| S56 | 79 | ((constant near3 ratio near3 stretch\$4) or (constant near3 percentage near3 stretch \$4)) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:50 |
| S57 | 30 | S56 and (tube or pipe) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:51 |
| S58 | 0 | S51 and ((constant near3 ratio near3 diameter) or (constant near3 percentage near3 diameter)) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:52 |
| S59 | 0 | S54 and ((constant near3 ratio near3 diameter) or (constant near3 percentage near3 diameter)) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:53 |
| S60 | 434 | ((constant near3 ratio near3 diameter) or (constant near3 percentage near3 diameter)) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:53 |

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| S61 | 212 | S60 and (tube or pipe) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 15:53 |
| S62 | 90 | ((constant near3 ratio near3 stretch\$4) or (constant near3 percent\$4 near3 stretch\$4)) | US-PGPUB; USPAT | ADJ | ON | 2010/04/01 16:10 |
| S63 | 2 | FR "2806957" | EPO; JPO; DERWENT | ADJ | ON | 2010/04/01 16:26 |
| S64 | 0 | S51 and ((precent\$4 or amount or ratio) with stretch\$3) | EPO; JPO; DERWENT | ADJ | ON | 2010/04/01 16:31 |
| S65 | 56 | S51 and ((precent\$4 or amount or ratio) with stretch\$3) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/01 16:31 |
| S66 | 56 | S51 and ((precent\$4 or amount or ratio or magnitude) with stretch\$3) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/01 16:32 |
| S67 | 2 | "20050062182" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/01 16:55 |
| S68 | 4 | "6726863" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/01 16:56 |
| S69 | 1 | "20020022101" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/01 16:56 |
| S70 | 0 | ((strech ratio) near3 circum\$10) same ((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:23 |
| S71 | 0 | ((strech ratio) near6 circum\$10) same ((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:23 |
| S72 | 0 | ((strech ratio) near6 circum\$10) AND((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:23 |
| S73 | 0 | ((strech ratio) near6 circum\$10) AND ((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:23 |
| S74 | 0 | ((strech ratio) near6 circum\$10) AND ((plastic or thermoplastic)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:24 |
| S75 | 5 | ((stretch ratio) near3 circum\$10) same ((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:24 |
| S76 | 5 | ((stretch ratio) near6 circum\$10) same ((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:24 |
| S77 | 9 | ((stretch ratio) near6 circum\$10) AND ((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 11:25 |
| S78 | 11 | ((stretch ratio) or (expansion ratio)) near6 circum\$10) AND((plastic or thermoplastic) near3 (tube or pipe)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 12:15 |
| S79 | 2 | FR "2806957" | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:29 |
| S80 | 1 | RU "2142362" | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:32 |
| S81 | 5 | "594832".pn. or "5942171".pn. | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:33 |
| S82 | 1 | RU "2167058" | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:34 |
| S83 | 0 | RU "02167058" | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:34 |
| S84 | 1 | "5948332" | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:36 |

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| S85 | 1 | "5948332".pn. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 12:36 |
| S86 | 0 | EP0751861 | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:37 |
| S87 | 0 | EP "0751861" | EPO; JPO; DERWENT | ADJ | ON | 2010/04/05 12:37 |
| S88 | 1 | "594832".pn. or "5942171".pn. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/04/05 13:25 |
| S89 | 1 | "20020022101" | US-PGPUB; USPAT | ADJ | ON | 2010/04/05 18:20 |
| S90 | 1008 | (264/177.14,177.13,177.1,165).CCLS. | US-PGPUB; USPAT | ADJ | ON | 2010/04/05 18:22 |
| S91 | 1 | S90 and(extru\$5 near5 (plastic (tube or pipe or tub\$4))) AND calibration | US-PGPUB; USPAT | ADJ | ON | 2010/04/05 18:23 |
| S92 | 2 | WO "9706940" | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2010/04/06 11:32 |
| S93 | 8 | (US-20070132137-\$ or US-20020022101-\$). did. or (US-5891481-\$ or US-6296804-\$ or US-6153132-\$ or US-6726863-\$).did. or (WO- 9636475-\$ or WO-0016962-\$).did. | US-PGPUB; USPAT; DERWENT | ADJ | ON | 2011/03/16 11:02 |
| S94 | 2 | S93 and ((plastic tube) with (diamet\$6 near3 expan\$6)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:04 |
| S95 | 1 | S93 and (((plastic tube) with (diamet\$6 near3 expan\$6)) with (vary or variable)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:06 |
| S96 | 1 | S93 and (((plastic tube) with (diamet\$6 near3 expan\$6)) AND ((diamet\$6 near3 expan\$6) with (vary or variable))) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:07 |
| S97 | 0 | S93 and ((variable sizing sleeve) same (plastic tube)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:27 |
| S98 | 1 | S93 and ((variable with (sizing sleeve)) same (plastic tube)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:28 |
| S99 | 1 | S93 and (((variable or vary or varying) with (sizing sleeve)) same (plastic tube)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:28 |
| S100 | 1776 | (diamet\$6 near3 expan\$6 near3 device) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:28 |
| S101 | 52 | (varying or variable or vary or adjust) with (diamet\$6 near3 expan\$6 near3 device) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:29 |
| S102 | 1 | S101 and (plastic tube) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:29 |
| S103 | 32 | S101 and (tube) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:29 |
| S104 | 42 | S101 and (tube or pipe) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:29 |
| S105 | 42 | S101 and (tube or pipe or piping) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:29 |
| S106 | 0 | (tube or pipe or piping) and ((circumferential adj draw) with (tensile strength)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:54 |
| S107 | 0 | ((circumferential adj draw) with (tensile strength)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:54 |
| S108 | 0 | ((circumferential adj draw) with (hoop strength)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:55 |
| S109 | 0 | ((circumferential adj draw) with (strength)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:55 |

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| S110 | 363 | (tube or pipe or piping) with diameter with (tensile strength) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:55 |
| S111 | 206 | (tube or pipe or piping) with diameter near8 (tensile strength) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 11:55 |
| S112 | 0 | (tube or pipe or piping) AND ((circumferential adj draw) with (polymer) with (orientat\$4)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 12:47 |
| S113 | 0 | (tube or pipe or piping) AND ((circumferential adj draw) with (polymer)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 12:47 |
| S114 | 0 | ((circumferential adj draw) with (polymer)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 12:47 |
| S115 | 4539 | ((draw) with (polymer)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 12:47 |
| S116 | 23 | ((draw) with (polymer orientation)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 12:47 |
| S117 | 0 | ((circumferential adj draw) with (tensile)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 13:19 |
| S118 | 685 | ((draw) with (tensile strength)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 13:19 |
| S119 | 1 | "6153132".pn. | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 14:29 |
| S120 | 324 | (pipe or tube) and (variable near3 diameter near3 (device or apparatus)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:26 |
| S121 | 63 | (pipe or tube).ab. and (variable near3 diameter near3 (device or apparatus)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:27 |
| S122 | 7 | (pipe or tube).ab. and (variable near3 diameter near3 expansion near3 (device or apparatus)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:30 |
| S123 | 17114 | ((pipe or tube of tubing or piping) with expansion) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:48 |
| S124 | 22 | S123 and ((expansion adj (apparatus or device)) with ((variable or varying) near3 diameter)) | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:49 |
| S125 | 1 | "10809036" | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:51 |
| S126 | 1 | "6712151".pn. | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:53 |
| S127 | 1 | "20030024711" | US-PGPUB; USPAT | ADJ | ON | 2011/03/16 15:53 |

EAST Search History (Interference)

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